Docket No.: PP01388.211

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Substitute for form 1449A/PTO Complete of Known 10/633,475 **Application Number** INFORMATION DISCLOSURE Filing Date 07/31/2003 STATEMENT BY APPLICANT First Named Inventor Derek O'Hagan Group Art Unit 1642 (use as many sheets as necessary) Examiner Name Unassigned Atturney Docket Number Sheet of 3 1 PP01388.211

Examiner Initials*	Cite Na.	U.S. Patent Document Number Class/Subclass		Name of Patentee or Applicant	Date of Publication of Cited Document MM- DD-YYYY	
				of Cited Document		
30	1.	5,643,605	424/279.1	Cleland et al.	07/01/1997	
32	2.	5,902,565	424/1.29	Cox et al.	05/11/1999	
12	3.	4,413,057	424/244.1	Carlo et al.	11/01/1983	
132	4.	5,010,183	435/262	Macfarlane	04/23/1991	
12	5.	6,086,901	424/283.1	O'Hagan et al.	07/11/2000	
132	6.	5,871,747	424/208.1	Gengoux-Sedlik et al.	02/16/1999	
gr	7.	5,869,103	424/501	Yeh et al.	02/09/1999	
75	8.	5,783,567	514/44	Hedley et al.	07/21/1998	
32	9.	5,830,430	424/1.21	Unger et al.	11/03/1998	
32	10.	5,630,922	204/499	Eswarakrishnan et al.	05/20/1997	
32	11.	4,534,996	427/498	Rembaum et al.	08/13/1985	
32	12.	5,714,354	435/101	Arnold et al.	02/03/1998	
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Examiner	Cite	ite Foreign Patent Document			Name of Patentee or Applicant of	Date of Publication of Cited	(T
Initials*	No.	Offiœ³	Number 4	Class/Subclass	Cited Document	Document MM-DD-YYYY	
32	1.	wo	96/20698	A61K 9/51	University of Michigan	07/11/1996	
34	2.	wo	95/24929		Brown University	09/1995	
32	3.	wo	98/33487	A61K 9/16	Chiron Corporation	08/06/1998	· · · · · ·
32	4.	wo	98/10750	A61K 9/16		03/19/1998	
	5.	wo	96/20698	A61K 9/51		07/11/1996	
52	6.	wo	94/28879	A61K9/16		12/22/1994	
32	7.	wo	94/15635	A61K 39/385		07/21/1994	_
32	8.	wo	97/02810	A61K 9/16	University of Nottingham	01/30/1997	
132	9.	wo	97/24447	C12N 15/63	Chiron Viagene, Inc.	07/10/1997	<b>-</b>

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<b>4</b>	••••			Application Number	10/633,475		
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STATEMENT BY APPLICANT				First Named Inventor	Derek O'Hagan		
GIRIEMENI DI RETERONI				Group Art Unit	1642		
(use as many sheets as necessary)				Examiner Name	Unassigned		
Sheet	2	of	3	Attorney Docket Number	PP01388.211		

n	Circ	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	T <sup>2</sup>
Examiner Initials*	No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1"
32	1.	Moore et al., Vaccine, Vol. 13, no. 18, 1995, pp. 1741-1749	
	2.	Haynes et al., AIDS Research and Human Retroviruses, Vol. 10, Supplement 2, 1994, pp. S42-S45.	
32			
32	3.	A.G.A. Coombes et al., "Single Dose, Polymeric, Microparticle-based Vaccines: The Influence of Formulation Conditions on the Magnitude and Duration of the Immune Response to a Protein Antigen," Vaccine, Vol. 14, no. 15, 1996, pp. 1429-1438.	
36	4.	Jacqueline D. Duncan et al., "Poly(lactide-co-glycolide) Microencapsulation of Vaccines for Mucosal Immunization," Mucosal Vaccines (Academic Press, 1996), pp. 159-173.	
32	5.	John H. Eldridge et al., "Biodegradable and Biocompatible Poly(DL-Lactide-Co-Glycolide) Microspheres as an Adjuvant for Staphyloccal Enterotoxin B Toxoid Which Enhances the Level of Toxin-Neutralizing Antibodies," Infection and Immunity, Vol. 59, no. 9, 1991, pp. 2978-2986.	
52	6.	John H. Eldridge et al., "New Advances in Vaccine Delivery Systems," Seminars in Hematology, Vol. 30, no. 4, 1993, pp. 16-25.	
32	7.	Deborah A. Higgins et al., "MF 59 Adjuvant Enhances the Immunogenecity of Influenza Vaccine in Both Young and Old Mice," <i>Vaccine</i> , Vol. 14, no. 6, 1996, pp. 478-484.	
32	8.	Ying Men et al., "Induction of a Cytotoxic T Lymphocyte Response by Immunization with a Malaria Specific CTL Peptide Entrapped in Biodegradable Polymer Microspheres," Vaccine, Vol. 15, no. 12-13, 1997, pp. 1405-1412.	
72	9.	Ryusuke Nakaoka et al., "Enhanced Antibody Production Through Sustained Antigen Release from Biodegradable Granules," Journal of Controlled Release, Vol. 37, 1995, pp. 215-224.	

Examiner	Date
	12/15/04
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EXAMINER: Initial Legistence considered, whether or not citation is in conformance with MPEP 509. Draw line through citation, if not in conformance and not considered, disclude copy of this form with next communication to applicant.

1 Unique citation designation number. Applicant is to place a check mark here if English Language Translation is attached.

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SINFORMATION DISCLOSURE Complete if Known
10/633,475 Application Number 07/31/2003 Filing Date Derek O'Hagan STATEMENT BY APPLICANT First Named Inventor Group Art Unit 1642 (use as many sheets as necessary) Examiner Name Unassigned Attorney Docket Number Sheet 3 of 3 PP01388.211

Examiner	Cite	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book,	T
Initials*	No.	magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	٠
	10.	D.T. O'Hagan et al., "Long-Term Antibody Responses in Mice Following Subcutaneous	
32	-	Immunization with Ovalbumin Entrapped in Biodegradable Particles," Vaccine, Vol. 11, no. 9, 1993, pp. 965-969.	
	11.	D.T. O'Hagan, "Biodegradable Microparticles for Oral Immunization," Vaccine, vol. 11, 1993, pp.	
3 2	-	149-154.	
	12.	Michael F. Powell et al., eds., Vaccine Design: The Subunit and Adjuvant Approach (New York:	-
zn		Plenum Press, 1995), p 183.	
	13.	Hongkee Sah et al., "Commuous Release of Proteins from Biodegradable Microparticles and In	_
zi		Vivo Evaluation of Their Potential as a Vaccine Adjuvant," Journal of Controlled Release, Vol. 35, 1995, pp. 137-144.	
	14.	H.M. Vordermeier et al., "Synthetic Delivery System for Tuberculosis Vaccines: Imminological	
32		Evaluation of the M. tuberculosis 38 kDa Protein Entrapped in Biodegradable PLG Microparticles," Vol. 13, no. 16, 1995, pp. 1576-1582.	
	15.	Bertling et al., "Lipsomes, Viral Capsids, and Nanoparticles as DNA Carriers," Biotechnology and Applied Biochemistry, Vol. 13, 1991, pp. 390-405.	
32			
	16.	Christine Chavany et al., "Adsorption of Oligonucleotides onto Polyisohexylcyanoacrylate	
32	_	Nanoparticles Protects Them Against Nucleases and Increases Their Cellular Uptake,"  Pharmaceutical Research, Vol. 11, no. 9 (1994), pp. 1370-1378.	
	17.	Elias Fattal et al., "Biodegradable Polyalkylcyanoacrylate Nanoparticles for the Delivery of	_
32	_	Oligonucleotides," Journal of Controlled Release, Vol. 53 (1998), pp. 137-143.	
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